DAILY FIELD ACTIVITY REPORT

PROJECT NAME: Pre-Remedial Design Investigation and Baseline Sampling, Portland Harbor Superfund Site

DATE: June 2, 2018	**WEATHER:** Clear, High ~80 degrees F

Personnel and Visitors Onsite:
Research vessel Cayuse – CDM Smith: Kyle Vickstrom; AECOM: Michaela McCoog; Geosyntec: Erin Dunbar; Gravity Marine: John Schaefer, Jeff Schut

Research vessel Tieton – CDM Smith: Libby Miner; AECOM: Mark Tauscher; Geosyntec: Luke Smith; Gravity Marine: Mike Duffield, Maggie McKeon

Planned Activity:

- Collect surface sediment samples at SMA and stratified random sample (SRS) locations from approximately river mile (RM) 2 to 9.

Activity Completed:
A tailgate safety meeting was led by AECOM. Topics discussed during the safety meeting included good housekeeping (especially with space occupied by containers for offsite sediment disposal), sun protection, three points of contact when moving on/off vessels, and hydration in the warmer weather.

Kyle Vickstrom performed oversight of surface sediment sampling at SMA and SRS locations near RM 6.4W, Swan Island Lagoon, and RM 9E from 08:00 to 15:00 on board the Cayuse. Specific activities completed by the AECOM/Geosyntec team, with vessel support from Gravity Marine, are as follows:

- GPS position checks were performed at the beginning and end of the day at the PH-2 pile at the Fred Devine property. GPS coordinates were within 1.2 meters of the PH-2 survey coordinates, meeting the 1-2 m accuracy specification in the FSP.
- Four 3-point composite surface sediment samples were collected as summarized below. Between sampling locations all sampling equipment was decontaminated using Alconox and deionized/distilled water. Two duplicates were collected, one from an SRS and the other from an SMA location.

Libby Miner performed oversight of surface sediment sampling at SMA and SRS locations near RM 6W, and RM 2E from 08:00 to 15:00 on board the Cayuse. Specific activities completed by the AECOM/Geosyntec team, with vessel support from Gravity Marine, are as follows:

- GPS position checks were performed at the beginning and end of the day at the PH-2 pile at the Fred Devine property. GPS coordinates were within 0.9 meters of the PH-2 survey coordinates, meeting the 1-2 m accuracy specification in the FSP.
- Four composite surface sediment samples were collected as summarized below. Between sampling locations all sampling equipment was decontaminated using Alconox and deionized/distilled water.

Status of Schedule & Priority Work:

- Sampling will continue this weekend with SMA, stratified random, and co-located core sampling locations.
- Sampling on some private property locations will continue to occur at locations with property access agreements.
- Sampling in areas of known/encountered heavy sheen contamination was conducted today and is now complete.
- Sampling is taking more time than initially projected, and the schedule was recently updated with a revised estimate of sampling duration. The Tieton will not be operating on Sunday, June 3 or subsequent days until a sampling approach for D/U reaches is approved.

Issues/Concerns/Resolutions (include work performed that was not planned or anticipated):

- Only one sediment grab was used in the composite for S-072 due to substrate conditions (heavy debris, rocks). An anomaly report was filled out for this sample.

Samples Collected, Measurements Made, Photographs: (List Locations, Matrix & Sample type):
On the Cayuse, sediment samples were collected at the following sampling locations:

- PDI-SG-B189 – SRS (RM 6.4W), within 25-foot radius, silt with trace sand and trace clay (duplicate collected)
- PDI-SG-S203 – SMA (Swan Island), within 25-foot radius, silt with trace sand (duplicate collected
- PDI-SG-S176 – SMA (Swan Island), within 25-foot radius, clayey silt with pockets of black sand

- PDI-SG-B316 – SRS (RM9E), within 25-foot radius, silt with trace sand and clay

On the Tieton, sediment samples were collected at the following sampling locations:

- PDI-SG-B181 – SRS (RM 6.4W), within 25-foot radius, dark brown silt and black sand layers
- PDI-SG-S015 – SMA (RM 2), within 25-ft radius, silt with trace organics
- PDI-SG-S072 – SMA, within 50-ft radius, silt and grey clay layer
- PDI-SG-B110 – SRS, within 50-ft radius, silt and black sand

Note: Sediment descriptions are simplified and AECOM/Geosyntec provided more detailed sediment descriptions in their sampling notes.

Photographs of work were taken throughout the day on board the Cayuse and Tieton and a subset was provided to EPA via email. Additional photos were taken and archived with a description included in the photolog Excel spreadsheet, which are maintained electronically in the ProjectWise project folder.

Borings Completed (Include total footage drilled for each boring):
None

Wastes Generated and How Handled:

- Excess sediment and debris in the power grab sampler and in the sampling bowls was rinsed back into the river at locations where there was no evidence of NAPL or soil staining and either no or trace sheen.
- Disposable gloves, paper towels, and other general trash was containerized in a trash bag and removed daily for disposal to a municipal waste management dumpster.
- At several locations with NAPL or soil staining, the grab sample was containerized on the boat, and sediment on equipment that contacted the sample was rinsed into the container. The container was transported to the AECOM sample processing facility to be placed into a 55-gallon drum for subsequent characterization and disposal. The grabs where this occurred, and descriptions of the contamination are provided below (note that sheen was observed in the sheen pan or grab sampler and was not observed on the river surface):

Health and Safety Issues, Equipment Needs, Staffing:
None.

Signature: Kyle Vickstrom, Libby Miner **DATE** June 2, 2018